

**VPDES GENERAL PERMIT REGISTRATION STATEMENT
FOR NONCONTACT COOLING WATER DISCHARGES <= 50,000 GPD (VAG25)**

Please Type or Print all information

A. APPLICANT INFORMATION

1. Name of Facility: _____
Facility Address: _____
City: _____ State: _____ Zip Code: _____
County: _____
 2. Facility Owner: _____
Owner's Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email Address: _____
 3. Is the operator of the facility also the owner? Yes_____ No_____
- If "No", Name of Operator: _____
- Operator's Mailing Address: _____
- City: _____ State: _____ Zip Code: _____
- Phone: _____ Email Address: _____

B. FACILITY INFORMATION

1. Does this facility currently have a VPDES permit? Yes_____ No_____
- If "Yes", please provide permit number: _____
2. List any point source discharges that are not composed entirely of cooling water

 3. List type and size (tons) of cooling equipment or non-contact cooling water processes:

<u>Type</u>	<u>Size (tons)</u>
_____	_____
_____	_____
_____	_____
 4. Complete the following if any chemical or non-chemical treatment, or both, is employed in each of the cooling water systems:
 - a. Describe the treatment to be employed, both chemical and non-chemical, and its purpose:

If chemical additives other than chlorine are used, complete b, c, d, e and f below.

 - b. Provide name and manufacturer of each additive used:

 - c. Provide list of active ingredients and percent composition:

 - d. Give the proposed schedule and quantity of chemical usage, and provide either an engineering analysis, or a technical evaluation of the active ingredients, to determine the concentration in the discharge:

 - e. Attach available aquatic toxicity information for each additive proposed for use.

- f. Attach any other information such as product or constituent degradation, fate, transport, synergies, bioavailability, etc., that will aid the Board with the toxicity evaluation for the discharge.
5. Describe any type of treatment or retention being provided to the wastewater before discharge (i.e., retention ponds, settling ponds, etc.) _____

6. Attach a schematic drawing of the cooling water equipment which shows the source of the cooling water, its flow through the facility, any treatment or retention provided, and each cooling water discharge point.
7. Attach a USGS 7.5 minute topographic map or equivalent computer generated map extending to at least one mile beyond property boundary. The map must show the outline of the facility, and the location of each of its existing and proposed intake and discharge points. Include all springs, rivers and other surface water bodies.
8. Discharge Information. List all cooling water discharges by a number that is the same as shown on the map required in #7. Identify the source of cooling water. Estimate the maximum daily discharge flow in gallons per day (gpd). List the waterbody name receiving the direct discharge or a discharge through a municipal separate storm sewer system.

<u>Outfall No.</u>	<u>Cooling Water Source</u>	<u>Max Daily Flow (gpd)</u>	<u>Receiving Stream</u>
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_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

9. Identify the duration and frequency of the discharge for each separate discharge point:

- a. Continuous: _____
- b. Intermittent (please describe): _____
- c. Seasonal: _____

10. Is the discharge to a municipal separate storm sewer system (MS4)? Yes _____ No _____

If "Yes", list the name of the MS4 owner (*see instructions*) _____

C. CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: _____

Print Name: _____

Title(s): _____

D. REQUIRED ATTACHMENTS

- Aquatic Toxicity Information For Chemical Additives (if applicable)
- Engineering Analysis, or a Technical Evaluation of the Active Ingredients (if applicable)
- Facility Schematic Drawing
- Topographic Map

For Department Use Only:

Waterbody _____

Basin _____ Stream Class _____ Section _____

Special Standards _____

**INSTRUCTIONS FOR COMPLETING THE VPDES GENERAL PERMIT
REGISTRATION STATEMENT FOR NONCONTACT COOLING
WATER DISCHARGES OF 50,000 GPD OR LESS (VAG25)**

GENERAL

A. Coverage Under The General Permit

Any owner of a facility discharging 50,000 gpd or less of non-contact cooling water to surface waters may request coverage under this general permit by submitting a complete Registration Statement to the Department. Discharges to municipal separate storm sewer systems (MS4s) are also eligible for coverage under this permit.

B. To Apply for Permit Coverage

1. New Facilities. Any owner proposing a new discharge must submit a complete Registration Statement at least 30 days prior to the date planned for commencing operation of the new discharge.

2. Existing Facilities.

a. Any owner covered by an individual VPDES permit who is proposing to be covered by this general permit must submit a complete Registration Statement at least 210 days prior to the expiration date of the individual VPDES permit.

b. Any owner that was authorized to discharge under the cooling water general permit that became effective on March 2, 2008, and who intends to continue coverage under this general permit must submit a complete Registration Statement to the Department on or before February 1, 2013.

C. Where to Submit Registration Statements.

The completed Registration Statement with original signature, a copy of the fee form, and a copy of your check for \$600 should be sent to the DEQ Regional Office serving the area where your facility is located. The original fee form and the original check should be sent to DEQ Receipts Control, P.O. Box 1104, Richmond, VA 23218. Regional office addresses can be obtained from the DEQ website at <http://www.deq.virginia.gov/Locations.aspx>, or by calling the DEQ at (804) 698-4000.

D. Completeness

Complete all applicable items, or enter NA for "not applicable". If more space is needed, attach extra sheets as necessary.

E. Definitions

"Blowdown" means a discharge of recirculating water from any cooling equipment or cooling process in order to maintain a desired quality of the recirculating water. Boiler blowdown is excluded from this definition.

"Cooling Water" means water used for cooling which does not come into direct contact with any raw product, intermediate product (other than heat) or finished product. For the purposes of this general permit, cooling water can be generated from any cooling equipment blowdown or produced as a result of any non-contact cooling process through either a single pass (once through) or recirculating system.

LINE BY LINE INSTRUCTIONS

Section A. APPLICANT INFORMATION

Item 1: Provide the name and location of the facility where the cooling equipment is located.

Item 2: Provide the name, mailing address, etc. of the person or corporation that owns the business. This does not have to be the owner of the building (e.g., if it is leased) but should be a person who is responsible for the business and wants coverage under the general permit.

Item 3: If someone other than the owner listed in Item 2 runs the plant and is the person with whom business will be conducted, check **No**. Otherwise check **Yes**.

If **No** was checked above, indicate the name, address, etc. of the person who operates the facility.

Section B. FACILITY INFORMATION

Item 1: Provide the permit number for any valid VPDES permit held by the facility.

Item 2: Describe any point source discharges from your facility that are not composed entirely of cooling water.

Item 3: List type and size (tons) of cooling equipment or non-contact cooling water processes. Most cooling equipment will have a manufacturer's identification plate attached which records the Make/Model of the unit. The size of the equipment should be calculated by using the following formula and you may consult with the local representative of the manufacturer to obtain the specific data:

$$\text{Tonnage} = (\text{GPM} * T) / 30$$

Where: GPM = Flow Rate (gallons per minute)

$$T = 10^{\circ}\text{F (Standard design temperature change)}$$

Item 4: The use of any chemical additives, except chlorine, without prior approval is prohibited under this general permit. You should list all chemicals currently used or which you anticipate to use within the life of the permit term. Prior approval shall be obtained from the DEQ before any changes are made to the chemical and non-chemical treatment technology employed in the cooling equipment. The MSDS and available aquatic toxicity information for each additive used may be obtained from the manufacturer of the chemical additives. Attach additional sheets as necessary, and any other information that will aid the DEQ in evaluating the toxicity of the discharge.

Item 5: Describe any type of treatment or retention being provided to the cooling water before discharge.

Item 6: Facility Schematic Drawing

A schematic drawing of the cooling equipment, not of the building facility, should show the source(s) of the cooling water (i.e., municipal water supply, well, etc.), its flow through the cooling system, any treatment or retention provided, and each cooling water discharge point (the surface water or MS4).

Item 7: Map

A USGS 7.5 minute topographic map or equivalent computer generated map is required to be submitted with the Registration Statement. Maps should be legible and of sufficient scale to show the required features with the site boundaries clearly marked. The map must show the outline of the facility, and the location of each of its existing and proposed intake and discharge points. Include all springs, rivers and other surface water bodies.

Item 8: Discharge Information

List all discharge outfalls by a number, such as 001, 002, etc. Use the same numbering scheme that was used on the map for Item #7. Discharge to the receiving stream may be through an MS4. In such cases, identify the receiving stream with a footnote recognizing the owner of the MS4 which the outfall discharges through.

Item 9: Identify the duration and frequency of the discharge for each separate discharge point.

Item 10: Indicate whether the facility will discharge to a municipal separate storm sewer system (MS4) (i.e., a storm drain). If so, give the name of the owner of the MS4 (e.g., Fairfax Co. storm drain inlet), and also list this in Item #8. Owners must notify the MS4 owner in writing of the existence of the discharge within 30 days of coverage under this general permit, and must copy the DEQ regional office with the notification. The notification must include the following information: (1) the name of the facility, (2) a contact person and phone number, (3) the location of the discharge, (4) the nature of the discharge, and (5) the facility's VPDES general permit number.

Section C: CERTIFICATION AND SIGNATURE

State statutes provide for severe penalties for submitting false information on this Registration Statement. State regulations require that the Registration Statement be signed as follows:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- a. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or

- b. The manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:

- a. The chief executive officer of the agency, or

- b. A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

Section D: REQUIRED ATTACHMENTS

- Aquatic Toxicity Information For Chemical Additives (if applicable)
- Engineering Analysis, or a Technical Evaluation of the Active Ingredients (if applicable)
- Facility Schematic Drawing
- Topographic Map